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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/923,096	08/06/2001	Sten Frolich	AN06187US/3161	9489
7590 08/11/2004			EXAMINER	
Richard P. Fennelly			CHIN, PETER	
Akzo Nobel Inc. 7 Livingstone Avenue			ART UNIT	PAPER NUMBER
Dobbs Ferry, NY 10522-3408			1731	
			DATE MAILED: 08/11/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	T-2	f f				
	Application No.	Applicant(s)				
Office Astism Comments	09/923,096	FROLICH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Peter Chin	1731				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute the Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed /s will be considered timely. It he mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 21 M	lay 2004.					
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)	nd 44-61 is/are withdrawn from co					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ot	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	is have been received. Is have been received in Applicat In rity documents have been receiv In (PCT Rule 17.2(a)).	tion No ed in this National Stage				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:					

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## **DETAILED ACTION**

1. Claim 14 is rejected under 35 U.S.C. 102(b) as anticipated by Begala ((5,595,629).

Begala anticipates the claimed invention as noted in the previous Office Action, mailed 12/18/2003.

2. Claims 1,2,4-6,8,10,12,14-19,24-26,28,37-40,42,62-67 rejected under 35 U.S.C. 103(a) as being unpatentable over Persson et al (WO 9955964) in view of Begala et al (5,595,629).

The claims are rejected for the reasons given in the previous Office Action, mailed 12/18/2003. In regard to newly added claims 62 and 66, Persson discloses the addition of an additional low molecular weight cationic polymer, last paragraph of page 7.

3. Applicant's arguments have been considered but are deemed unpersuasive of patentability.

The arguments relating to Begala as it relates to claim 14 are more specific than the claim. Begala anticipates the invention claimed in claim 14.

Persson clearly discloses that anionic condensation polymers such as melamine-sulfonic acid sols are useful as the anionic particulate and alternative to silica particles. Begala teaches that the claimed naphthalene sulfonate condensation polymer when used in conjunction with a cationic polymer will improve retention, drainage and formation. Such teaching supplies motivation to employ the claimed condensation polymer as the anionic condensation polymer in Persson.

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The Solhage Declaration submitted on May 21, 2004 does provide probative evidence of unexpectedness of the invention over Persson's invention. However, the claims are not commensurate with the showing. The showing is limited to a cationic starch having one or more cationic aromatic groups, the cationic moiety being a quaternary ammonium group. The only anionic polymer having one or more aromatic group is a formaldehyde-naphthalene sulfonate condensate. There is no evidence that other classes of cationic polysaccharides and anionic polymers containing one or more aromatic groups would also reasonably expect to exhibit unexpected properties over Persson. Therefore if the claims were amended to be limited to these two groups of polymers, the claims would be allowable.

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Chin whose telephone number is (571) 272-1186. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on (571) 272-1189. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Peter Chin Primary Examiner Art Unit 1731